

0032 We claim:

1. (withdrawn) An improved steam reforming catalyst composition comprising:
 - a. Nickel, platinum, palladium, rhodium or combinations thereof;
 - b. at least two partially reducible metal oxides chosen from the oxides of cerium, molybdenum, tungsten, vanadium, tin and chromium;
 - c. zirconium oxide
 - d. lanthanum oxide and
 - e. aluminum oxide

wherein the Group VIII metal comprises nickel, platinum, palladium, rhodium or mixtures thereof.

2. (currently amended) ~~An improved steam reforming process for producing a hydrogen-rich gas comprising reacting a sulfur – containing hydrocarbon feedstock with steam, wherein the sulfur-containing hydrocarbon feedstock contains at least 1 ppm of sulfur over a the catalysts of claim 1 at a temperature in the range of 600–900 °C wherein the sulfur content of the hydrocarbon feedstock is at least 1 ppm. containing:~~
 - a. iridium
 - b. at least two partially reducible metal oxides chosen from the oxides of vanadium, molybdenum, tungsten, tin, and chromium and
 - c. calcium or barium oxide and
 - d. Aluminum oxide

3. (Original) A steam reforming process according to claim 2 wherein the sulfur-containing hydrocarbon feedstock is natural gas, liquefied petroleum gas, naphtha, gasoline, kerosene, jet fuel, diesel, or methane.